GEOPOINT BOX

PERSONAL TRACKER

User Guide

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July Edition 2009

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Printed in Italy.

Note for the users of appliances

According to the article 13 of the Legislative Decree no. 151 dated July 25, 2005, "Enforcement of the 2002/95/EC and 2003/108/EC directives, relavant to the reduction of dangerous substances in electric and electronic applinaces, as well as waste disposal", the symbol of a crossed dustbin applied on appliances or on their cases means that the product at the end of its life cycle must be disposed in a dedicated location than other waste.

The user must, therefore, dispose the aplliance at its end-of-life in the relevant disposal site for electric and electronic waste or give it back to resellers at the time of purchasing a news equivalent one.

The correct disposal and consequant start up of a recycling of the unused appliance, treatment and final disposal compatible to the enviroment concurs to avoid possible negative effects on the enviroment and health and favours the reusing and / or recycling of the parts making the apparatus.

The abusive disposal of such products done by users is fined according to the present legislation.

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Safety Instructions

Please read the following safety instructions carefully. Not following them may be dangerous and/or illegal. For further details, please read carefully the user manual complete version contained in the enclosed CD ROM.

- Do not switch the device on when prohibited or whenever it could cause any interference or danger.
- Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.
- All wireless devices may be susceptible to interference, which could affect the performance of other appliances (TV, radio,...).
- Switch the device off in hospitals or near medical equipment (hearing aid equipment, pacemaker, ...) the device could cause interference. Always keep a distance of 20 cm between pacemaker and device.
- Wireless and digital devices can cause interference with aircraft equipment.
- Do not use the device at a refuelling point. Switch-off when near petrol stations or fuel depots and chemical plants. The device could interfere with the correct functioning of the electronic equipment.
- Do not use the device where blasting is in progress.
- Do not use the device for any uses other than those it has been built for. Keep to the instructions as explained in the product manual.
- Only qualified personnel may install or repair this product.
- Use only approved accessories and batteries. Do not use incompatible products. The use of nonstandard products can cause damage to device and/or people.
- The batteries must be disposed according to the appropriate modes. The consumer must duly hand in worn out batteries, either at the appropriate collection points for the general public, in his own town, or wherever batteries of the same kind are sold (compulsory warning according to law on the disposal of batteries).
- The device is not water-resistant, keep it dry. Contact with water or any other liquid could cause serious damage to the device.

General Information

The tracker is a portable device able to transmit its geographical location to a mobile phone or PC in real-time and to send SOS messages in case of an emergency. Moreover, the detected data can be recorded for further analysis.

The tracker is available in two different versions:

- **LCD**: GPS tracker with display, phone and 2MB data storage memory.
- **BOX**: GPS tracker without display, without vocal communication and with 512kB data storage memory.

Both trackers can be offered combined in the **KIT** version, particularly indicated for the use of *Finder* function, useful for real-time locating.

This User Guide describes the tracker in the BOX version.

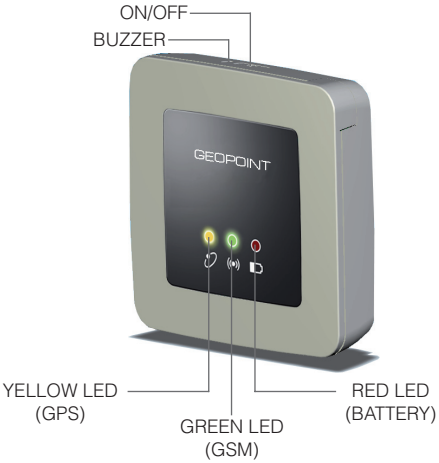
The tracker has two basic version:

- locating and transmitting its actual position
- sending an SOS message in case of an emergency

The tracker is provided with MyTrack software allowing the tracker management and personal tracking.

The GPS receiver and the GSM device work at higher radio frequencies which can be stopped by enclosures containing metal and plastic parts. **It is suggested to keep the tracker under light clothes, as external as possible**.
Examples of shielding materials: kevlar, carbon fibre, some polyurethanic and polyamidic resins especially if black, etc.
Examples of materials which cannot influence the radio waves: ABS, ABS+PC, policarbonate, etc.

For further details on tracker use and functions, please read carefully the user manual complete version contained in the enclosed CD ROM.


ON/OFF
BUZZER
GEOPOINT
YELLOW LED
(GPS)
GREEN LED
(GSM)
RED LED
(BATTERY)

SOS KEY
SOS
USB
DC IN

Preliminary Procedures

Inserting the SIM Card

In case of a SIM card:

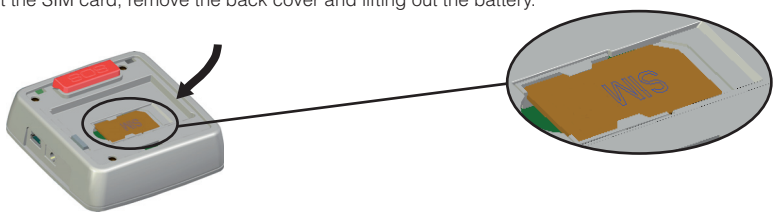
- **prepaid**: the communication between the tracker and the provided software is made exclusively by SMS text or GPRS network.
- **with subscription**: the communication between the tracker and the provided software is made by SMS text, GPRS network or also sending/receiving data (only if the data number has been activated by the network provider).

PIN: - - - - - Before inserting the SIM card in the tracker, disable the PIN code by means of a mobile phone.

Inserting a SIM card any SMS message, contained in it or which will be received in the future, will be deleted and cannot be retriveable.

30 sec. If the battery is not inserted within 30 seconds, the date and hour settings will be ERASED.

To insert the SIM card, remove the back cover and lifting out the battery.



How to Charge the Battery

Before using the tracker for the first time, the battery must be completely charged.
Before charging, check that the network electrical supply corresponds to that of the battery charger. Do not exceed the network voltage indicated on the battery charger.

Use only batteries and battery chargers with the following features:

- **Battery: model ABL-6C Li-ion**
- **Battery charger: model ZD050050EU**
- **Car charger: model ESC-004**

The manufacturing company is not liable for any damage to the tracker due to the use of accessories different from those expressly indicated.

Do not leave the tracker in particularly hot or cold environments during the battery charging. Keep the tracker between -10°C and +40°C environmental temperature.

When the battery is almost discharged, the tracker, if ON, emits an acoustic warning every minute.

Use of the Tracker

LED Indicators

The LED indicators on the front part of the device shows the status of the main functions of the tracker. At tracker switching on/off, the 3 LEDs will light up together at the same time for 1 second and an acoustic signal will be emitted.

GPS Signal
- OFF ➡ tracker off or GPS receiver off
- ON ➡ waiting GPS signal
- blinks every sec. ➡ poor signal level (2D FIX)
- blinks every 4 sec. ➡ high signal level (3D FIX)

Battery
- OFF ➡ tracker off or battery completely charged
- blinks every 2-3 sec. ➡ battery discharged
- ON ➡ battery charging in progress

GSM Network
- OFF ➡ tracker off or connected to USB port
- blinks every sec. ➡ network search in progress
- blinks every 4 sec. ➡ sufficient signal strength
- 2 blinks every 4 sec. ➡ GSM/GPRS data communication in progress

Tracker Function	Description	Refer to
SOS key	the tracker sends an alarm message	chapter *Use of the Tracker*
Position Request	the tracker sends an SMS containing its position to the phone number which requested this data	chapter *Tracker Management by SMS*
Automatic Position Sending	the tracker sends automatically its position by SMS or by GPRS connection	chapter *Tracker Management by SMS*
Position Data Recording	the tracker records its position data to review the track afterwords	chapter *Use of the Tracker* chapter *Setup by MyTrack Software*
Geofence	the tracker sends an alarm SMS to the preset phone number everytime it exits or ri-enters in a preset rectangular area	chapter *Tracker Management by SMS*
Anchor	the tracker sends an alarm SMS to the preset phone number everytime it exits or ri-enters in a preset circular area	chapter *Tracker Management by SMS*
Power Save Mode	the tracker switches on/off automatically to optimize the battery consumption	chapter *Setup by MyTrack Software*
Alarm SMS	the tracker sends alarm SMS to the preset phone number everytime a status change happens (low battery, memory full, ...)	chapter *Tracker Management by SMS* chapter *Setup by MyTrack Software*

The tracker can work without the SIM card. In this case, all functions operating with GSM/GPRS network will not be available.

SOS Key

By pressing the **SOS** key for at least 2 seconds, for 5 consecutive times every minute, an SMS message is immediately sent to the preset phone numbers (max. of 4 phone numbers). This message also contains the current data on the location, if the GPS signal has been revealed. If there is no GPS signal coverage, the last position data will be sent.

If no numbers have been set or in the absence of GSM signal, every time the SOS key is pressed, an acoustic warning signal is emitted.

In the event that there is no network service coverage, the alarm functions may not be available.

Example of the SMS message displayed on the mobile phone, with the detected **current position data**

```
GEO,ID:GLORIA,SOS ALARM,POS:45g37.9480N,008g28.9992E,ALT:0218m,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, with the last **position data detected before the GPS signal loss**

```
GEO,ID:GLORIA,SOS ALARM,LAST POS:45g37.9480N,008g28.9992E,ALT:0218m,07/04/10,10:09
```

The SMS message structure of the *SOS* function is described here below:

GEO	Tracker type.
ID:------	Tracker name preset by the user through the provided software.
SOS ALARM	Alarm message.
POS:-----.-----,-----.-----	Latitude and longitude of the geographical position.
ALT:-----	Altitude in m.
--/--/-- --:--	Event date and time (yy/mm/dd hh:mm).

Position Data and Events Recording

The tracker allows to record:
- the detected events automatically without setting the recording
- the position data to review the track afterwords, if the recording was previously set

The tracker can records approx. 14,800 position points and approx. 1,900 events.

When an event occurs, the tracker detects it and start to record in the Event LOG.
The following list shows all the events which can be detected and recorded automatically by the tracker.

- power on/off
- low battery
- receiving a data call
- making a GPRS call
- hanging up a call
- motion on/off
- GSM network available/unavailable
- GPS signal available/unavailable
- entry/exit from Geofence area
- entry/exit from Anchor area
- firmware update
- SOS alarm
- memory erasing
- roaming on/off
- network GSM provider changing if roaming on

The setup of the position points recording can be carried out by means of the provided software (refer to the chapter *Setup by MyTrack Software*).

Tracker Management by SMS

Position Request

It is possible to ask for the tracker position by means of an SMS command. After receiving the SMS command, the tracker sends a message containing the position data to the phone number which sent the command.

To know the tracker position in real time, send the following command: **rpos**
For further details, refer to the paragraph *Reading and Writing SMS Commands*.

Automatic Position Sending

The tracker can send its own position at a programmable rate. The automatic position sending can be carried out in two different modes:

- by SMS
- by GPRS connection

CYCLIC POSITION SMS

The tracker can send an SMS message at intervals, containing all the information on its current position. This function is useful for monitoring the tracker motion at a distance by a mobile phone.

To use this function, it is necessary to:

- set, using the provided software, the phone number where the position messages will be sent
- set the rate for the cyclic position SMS using the provided software or sending an SMS command
- enable the function using the provided software or sending an SMS command

CYCLIC GPRS CONNECTION

The cyclic GPRS connection allows to connect the tracker automatically at a programmed rate for the continuous position updating. At the programmed rate, the tracker will be connected only for the time needed for sending the position point. This function is very useful if combined with the I-Scout web server as it allows to display the detected positions by every station connected to internet.

To use this function, it is necessary to:

- set the GPRS communication parameters using the provided software or sending an SMS command
- enable the function setting the rate for cyclic GPRS connection using the provided software

Anchor

The *Anchor* function allows to monitor within a pre-established circular area the position of a person, an object or an animal. When the tracker detects the exiting from the pre-established area or the ri-entering, it sends an alarm SMS containing its position data to the preset phone number.

This function is programmable using the complete SMS command (enabling and radius setting) or partially by the provided software.

When the complete SMS command is received by the tracker (e.g. *wanc=1,0500*), the function is enabled and the current tracker position is considered as area central point. If the function is enabled without setting the radius, the previously set coordinates for the central point and the last programmed radius will be considered. If no radius was previously programmed, by default it will be set to 100 m.

This function is programmable completely by SMS command (wanc). By the provided software, only function enabling and radius setting is possible.

Before enabling this function, it is necessary to set the phone number where SMS will be sent by means of the provided software.

Example of the SMS message displayed on the mobile phone, when the tracker enters the area

```
GEO,ID:GLORIA,ANCHOR ENTER,POS:45g37.9481N,008g28.9992E,ALT:0218m,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when the tracker exits the area

```
GEO,ID:GLORIA,ANCHOR EXIT,POS:45g37.9481N,008g28.9992E,ALT:0218m,07/04/10,10:09
```

The SMS message structure of the *Anchor* function is described here below:

GEO	Tracker type.
ID:–––––––	Tracker name preset by the user through the provided software.
ANCHOR ENTER	Alarm message.
POS:–––––.–––––,–––––.–––––	Latitude and longitude of the geographical position.
ALT:–––––	Altitude in m.
––/––/–– ––:––	Event date and time (yy/mm/dd hh:mm).

Geofence

The *Geofence* function allows to monitor the entry and the exit of the tracker in a pre-established area.
This is a rectangular area and can be programmed by set the area diagonal coordinates by means of the provided software, or by means of an SMS command sent by a mobile phone.
To set the SMS command, refer to the paragraph *Reading and Writing SMS Commands*.

After having set the parameters of the *Geofence* function, the tracker will send an SMS message of alarm to the preset phone number (set by means of the provided software) each time it enters/exits the pre-established area or each time it is switched on outside the pre-established area.

Example of SMS message displayed on the mobile phone, when the tracker enters the area

```
GEO,ID:GLORIA,GEOFENCE ENTER,POS:45g37.9481N,008g28.9992E,ALT:0218m,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when the tracker exits the area

```
GEO,ID:GLORIA,GEOFENCE EXIT,POS:45g37.9481N,008g28.9992E,ALT:0218m,07/04/10,10:09
```

The SMS message structure of the *Geofence* function is described here below:

GEO	Tracker type.
ID:------	Tracker name preset by the user through the provided software.
GEOFENCE ENTER	Alarm message.
POS:-----.-----,-----.-----	Latitude and longitude of the geographical position.
ALT:-----	Altitude in m.
--/--/-- --:--	Event date and time (yy/mm/dd hh:mm).

Alarm SMS

The *Alarm SMS* are alarm messages sent (if the function has been enabled by the provided software) to a phone number every time that:

- the tracker battery is almost discharged
- the tracker memory is full
- the GPRS network is available
- the GPRS network is not available
- the GPS signal of the tracker has been lost
- the GPS signal of the tracker has been restored
- tracker motion is revealed
- the tracker motion stops

This function can only be programmed by means of the provided software.

Example of the SMS message displayed on the mobile phone, when the tracker battery is almost discharged

```
GEO,ID:GLORIA,LOW BATTERY,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone,when the tracker memory is full

```
GEO,ID:GLORIA,MEMORY FULL,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when the GPRS network is available

```
GEO,ID:GLORIA,GPRS OK,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when the GPRS network is not available

```
GEO,ID:GLORIA,GPRS OFF,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when there is GPS signal

```
GEO,ID:GLORIA,GPS FIX OK,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when the GPS signal has been lost

```
GEO,ID:GLORIA,NO GPS FIX,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when a tracker motion is revealed

```
GEO,ID:GLORIA,MOTION ON,07/04/10,10:09
```

Example of the SMS message displayed on the mobile phone, when a tracker motion stops

```
GEO,ID:GLORIA,MOTION OFF,07/04/10,10:09
```

The SMS message structure of the *Alarm SMS* function is described here below:

GEO	Tracker type.
ID:–––––––	Tracker name preset by the user through the provided software.
LOW BATTERY	Alarm message.
––/––/–– ––:––	Event date and time (yy/mm/dd hh:mm).

Reading and Writing SMS Commands

The SMS commands allows to set or read some tracker settings. These messages can be sent by a mobile phone or by a GSM device able to send/receive SMS (i.e. a GSM modem).
When the tracker is switched ON and there is GSM signal, it can receive any SMS command. If the tracker receives a correct SMS command, an answer is sent to the SMS command sender.
If the message contains invalid characters, the tracker will not reply. If it contains invalid values, the tracker will reply a message containing "**COMMAND ERROR**". All commands start with the letter "**r**" (reading) or "**w**" (writing).

Ensure that the SMS commands are written exactly as shown in the table. Any change (space, capital letter, small letter,...) could affect the recognition of the command.

Before enabling the sending of position SMS in cyclic mode (wposc), ensure that the SMS phone number has been programmed.

Reading Commands

Command	Meaning and Values	Example
rpos	Read instantaneous GPS position data. The tracker can reply in 3 different ways: A) POS: <position data> = GPS position in real time. B) LAST POS: <position data> = no GPS signal. The reply message contains the last detected GPS data. C) POS: NO GPS DATA = from the tracker switching on, the GPS signal has not been detected. NOTE: the date and time refer to: • SMS sending, in case of Reply A • last detected GPS data, in case of Reply B	Command: ***rpos*** Reply A: ***POS:41g37.8283N,012g28.8191E, ALT:0262m,DIR:023g,SPEED:0050km/h, SAT:09,07/05/26,15:56*** Reply B: ***LAST POS:45g37.8283N, 008g28.8191E,ALT:0262m, DIR:023g,SPEED:0050km/h, SAT:09,07/05/26,15:56*** Reply C: ***POS: NO GPS DATA*** *Description:* *41g37.8283N — Lat. in degree, min.* *012g28.8191E — Long. in degree, min.* *0262m — Altitude in m* *023g — Direction in degree* *0050km/h — Speed in km/h* *09 — Satellites number* *07/05/26 — Date (yymmdd)* *15:56 — Time (hhmm)*
rposc	Read cyclic position SMS setup and power save mode status. [status: 0=disabled, 1=enabled] [rate: 01÷99 minutes] [power save mode: 0=disabled, 1=enabled]	Command: ***rposc*** Reply: ***rposc=1,01,0*** *Description:* *1=enabled cyclic position SMS* *01=1 minute rate* *0=disabled power save mode*

Command	Meaning and Values	Example
rms	Read the accelerometer setup values. [sensitivity: 00=disabled sensor, 01=maximum, 10=minimum] [timeout: 01÷99 minutes]	Command: ***rms*** Reply: ***rms=02,10*** *Description:* *02=sensitivity level 2* *10=10 minutes timeout*
rgf	Read the Geofence setup. [status: 0=disabled, 1=enabled] [LAT1,LONG1,LAT2,LONG2=latitude and longitude of the 2 points which define the Geofence area]	Command: ***rgf*** Reply: ***rgf=1,45g37.7981N,008g28.8012E, 41g37.8971N,012g28.8012E*** *Description:* *1=enabled* *45g37.7981N,008g28.8012E=latitude and longitude of the first point* *41g37.8971N,012g28.8012E=latitude and longitude of the second point*
ranc	Read the Anchor setup. [status: 0=disabled, 1=enabled] [radius: 0050, 0100, 0200, 0300, 0500, 0700, 1000, 1500, 2000, 3000, 4000 m]	Command: ***ranc*** Reply: ***ranc=1,0100*** *Description:* *1=enabled* *0100=radius at 100 m*

Writing Commands

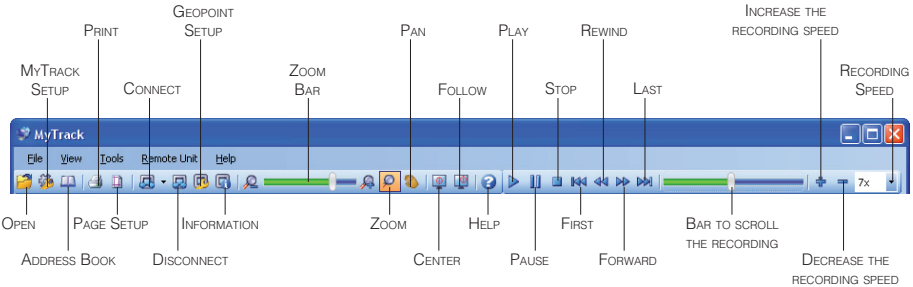
Command	Meaning and Values	Example
wposc	Set the cyclic position SMS in text format and the relevant power save mode. [enabling: 0=disable, 1=enable] [rate: 01÷99 minutes] [power save mode: 0=disable, 1=enable] NOTE: the power save mode works only with SMS rate ⩾ 5 minutes. Never set like this: wposc=0,xx,1 NOTE: to enable or disable only the cyclic position SMS, send the wposc command with the first field only. In this case, the previously set rate is considered.	Case A Command: ***wposc=1,01,0*** Reply: ***wposc=1,01,0 OK*** *Description:* *1=enables the cyclic position SMS* *01=1 minute rate* *0=disables the power save mode* Case B Command: ***wposc=1*** Reply: ***wposc=1 OK*** *Description:* *1=enables the cyclic position SMS with the previous set rate*
wms	Set the accelerometer values. [sensitivity: 00=disables sensor, 01=maximum, 10=minimum] [timeout: 01÷99 minutes]	Command: ***wms=02,10*** Reply: ***wms=02,10 OK*** *Description:* *02=sensitivity level 2* *10=10 minutes timeout*

Command	Meaning and Values	Example
wgf	Set the Geofence. [status: 0=disable, 1=enable] [LAT1,LONG1,LAT2,LONG2=latitude and longitude for the 2 points defining the Geofence area] NOTE: to enable or disable the Geofence function without setting the area, sent the wgf command with the first field only.	Case A Command: ***wgf=1,45g37.7981N,008g28.8012E, 41g37.8971N,012g28.8012E*** Reply: ***wgf=1,45g37.7981N,008g28.8012E, 41g37.8971N,012g28.8012E OK*** *Description:* *1=enable* *45g37.7981N,008g28.8012E=latitude and longitude of the first point* *41g37.8971N,012g28.8012E=latitude and longitude of the second point* Case B Command: ***wgf=1*** Reply: ***wgf=1 OK*** *Description:* *1=enables the function considering the previous defined area*

Command	Meaning and Values	Example
wanc	Set the Anchor. [enabling: 0=disable, 1=enable] [radius: 0050, 0100, 0200, 0300, 0500, 0700, 1000, 1500, 2000, 3000, 4000 m; default radius: 0100] NOTE: to set the tracker current position as area center point, send the complete wanc command, containing both enabling and radius fields (e.g. wanc=1,0100). NOTE: to enable or disable the Anchor function without setting the radius, send the wanc command with the first field only. In this case, the default radius or the previously set radius is considered.	Case A Command: ***wanc=1,0100*** Reply: ***wanc=1,0100 OK*** *Description:* *1=enables* *0100=radius at 100 m* Case B Command: ***wanc=1,0100*** Reply: ***NO VALID CENTER POS*** *Description:* *1=enables* *0100=radius at 100 m* *NO VALID CENTER POS=if the center point cannot be detected* Case C Command: ***wanc=1*** Reply: ***wanc=1 OK*** *Description:* *1=enables the function considering the default radius or the previously set radius*
wem	Erase all position data recorded in the memory.	Command: ***wem*** Reply: ***wem OK***

Command	Meaning and Values	Example
wgprs	Set the GPRS parameters and start the continuous GPRS connection. [setup: 0=set the GPRS parameters without starting the connection, 1=connect with the new parameters (IP, PORT), 2=connect with the parameters previously preset] [parameters: IP=host IP address, PORT=TCP port] NOTE: the IP and PORT parameters should be written between commas. NOTE: if there is no GPRS connection, the tracker sends an error SMS containing “GPRS ERROR”.	Case A Command: ***wgprs=0,”213.86.89.11”,”9500”*** Reply: ***wgprs=0,”213.86.89.11”,”9500” OK*** *Description:* *0=set GPRS parameters without starting the connection* *213.86.89.11=host IP address (example)* *9500=TCP port* Case B Command: ***wgprs=1,”213.86.89.11”,”9500”*** Reply: ***wgprs=1,”213.86.89.11”,”9500” OK*** *Description:* *1=GPRS connection with new parameters* *213.86.89.11=host IP address (example)* *9500=TCP port* Case C Command: ***wgprs=2*** Reply: ***wgprs=2 OK*** Case D Reply: ***NO GPRS COVERAGE*** *Description:* *NO GPRS COVERAGE=if GPRS signal is missing*

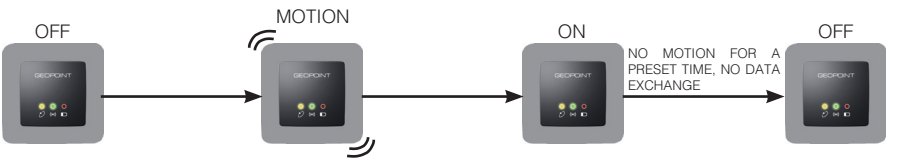
Setup by MyTrack Software



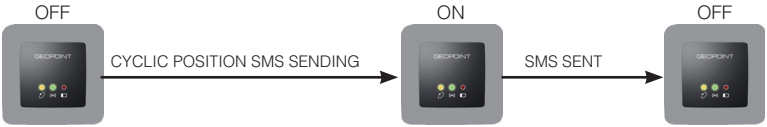
Power Save Mode

The *Power Save Mode* allows for optimal management of the battery tracker. It is possible to set the tracker automatic switching on/off according to specific use requirements.
There are three *Power Save Modes* programmable by means of the provided software, except for *Cyclic Position SMS* which is programmable by SMS command too. After *Power Save Mode* enabling, the tracker will switch off automatically 2 minutes after tracker disconnection by the provided software.

WITH MOTION



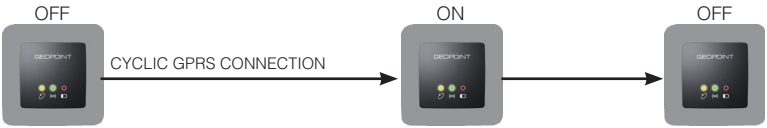
WITH CYCLIC POSITION SMS



Before using this mode, enable and set the *Cyclic Position SMS* function with SMS rate ⩾ 5 minutes.

During the automatic switching on, if the tracker is connected by the provided software, the automatic switching off will be carried out after position SMS sending, after carrying out all the preset operations and 2 minutes after tracker disconnection.

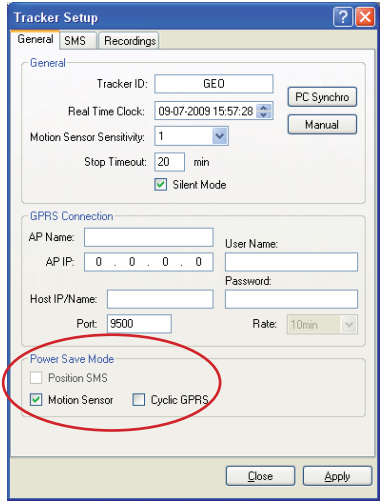
WITH CYCLIC GPRS CONNECTION



Before using this mode, enable and set the *Cyclic GPRS Connection* function with rate ⩾ 5 minutes.

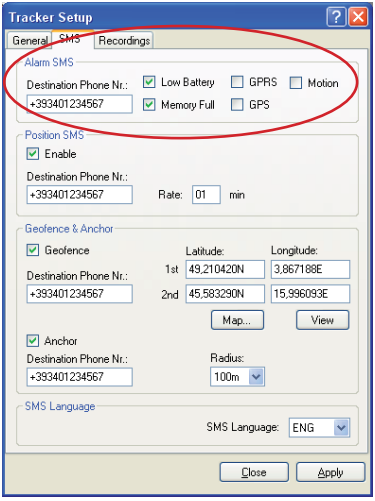
The tracker will switch off automatically after successfull GPRS connection and after carrying out all the preset operations.
If, after two tries, the GPRS connection is failed, the tracker will switch off automatically.

To a set a *Power Save Mode*, connect the tracker to the provided software and access the setup window by selecting *Setup* from *Remote Unit* menu.



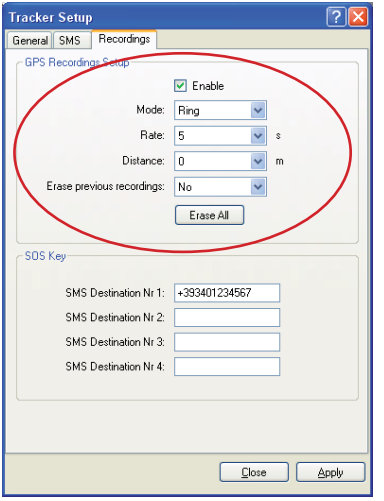
Alarm SMS

To enable/disable the *Alarm SMS* and set the phone number, connect the tracker to the provided software and access the setup window by selecting *Setup* from *Remote Unit* menu.



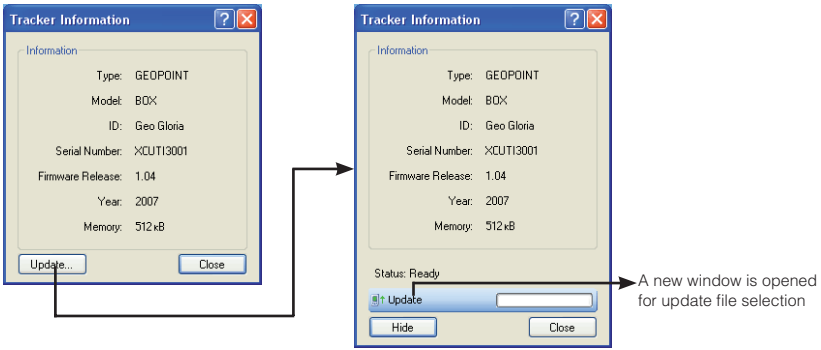
Position Data Recording

To set a data position recording, connect the tracker to the provided software and access the setup window by selecting *Setup* from *Remote Unit* menu.



Update of the Tracker Firmware Version

To update the tracker, connect the tracker to the provided software and access the info window by selecting *Info* from *Remote Unit* menu.



The 3 LEDs remain continuously ON during tracker firmware update.
Wait until the update is completed, this occurs when the tracker is turned off.

If the tracker to be updated is connected with GSM/GPRS network, be sure that the GSM/GPRS network signal level is high.

If the tracker to be updated is connected by a USB cable, do not remove the cable during the update.

To perform the update, it is necessary to connect the provided battery charger to the tracker.

Maintenance

The tracker and relevant accessories must be handled with care. Read the following instructions carefully.

- Clean the tracker with a soft cloth, avoiding the use of corosive chemical products, solvents or aggressive detergents.
- Do not paint the tracker.
- Do not swallow the accessories or small components of the tracker.
- Avoid blows to the tracker which could internally damage the product.
- Do not open the tracker in any way differently from the way indicated in the manual.
- Do not wet the tracker. Humidity, condensation, rain or any other liquids containing mineral substances could damage the electronic circuits. In the event of contact with liquids, remove the battery and leave the tracker to dry.
- Do not use or leave the tracker in particularly hot environments. High temperatures could damage the electronic circuits, the battery and the plastic parts of the tracker.
- Do not use or leave the tracker in particularly cold environments. Low temperatures could cause damage to the electronic circuit boards of the tracker.
- Do not use or leave the tracker in particularly dirty or dusty environments, the tracker could get damaged.

Technical Features

GPS receiver:	SiRFstarIII - 20 channels
GSM frequencies:	850 / 900 / 1800 / 1900 MHz
Data memory:	512kB non-volatile FLASH
Porta di comunicazione:	no.1 USB
Sensor:	no.1 for accelerometer
Dimension/Weight:	74 x 74 x 23 mm / 120 gr
Battery:	model ABL-6C Li-ion - 3,7V 1000mAh
Battery charger:	model ZD050050EU input 100VAC - 240V 50/60Hz 0,15A output 5VDC 500mA
Car charger:	model ESC-004 input 13,6VDC output 5VDC 500mA
Conformity:	CE mark

CONDITION	BATTERY LIFE
Standby mode with motion sensor active.	~10 days
Tracking SMS every minute (GPS always on).	~9 hours
Tracking SMS every 5 minutes (GPS with hotstart).	~4 days
Continuous tracking.	~2 hours
Data connection, with GPS system continuously active.	~2 hours
Position data recording every minute.	~37 hours
Tracker not in use.	~2 days
Tracker in communication on GSM network.	~4 hours

Manufacturer's Limited Warranty

This warranty does not limit the user's (statutory) rights under applicable national laws relating to the sale of consumer products.
During the warranty period, the Manufacturer or Manufacturer authorized service company will in a commercially reasonable time remedy defects in materials, design and workmanship free of charge by repairing.
The Manufacturer will, in accordance with this Limited Warranty (unless otherwise required by law), remedy defects by repair or, should the Manufacturer in its discretion deem it necessary, replace the Product.

This Limited Warranty is only valid and enforceable in the country where the user has purchased the Product provided that the same Product has been intended for sale in that country by the Manufacturer. However, if the user has purchased the Product in a member state of the European Union, Iceland, Norway, Switzerland or Turkey and such Product was originally intended by the Manufacturer for sale in one of these countries, this Limited Warranty is valid and enforceable in all of these above listed countries. Some limitations to the warranty service may apply because of country specific elements in the Products.

Warranty Period

The warranty period starts at the time of Product's original purchase by the first end-user. The Product may consist of several different parts and different parts may be covered by a different warranty period. The different Warranty Periods are:

- 24 months for the device
- 6 months for the following consumable parts and accessories: battery, chargers, device cover
- 90 days for the media on which any software is provided, (e.g. CD ROM, DVD,...)

As far as national laws permit, the warranty period will not be extended or renewed or otherwise affected due to subsequent resale, repair or replacement of the Product authorized by the Manufacturer.

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